

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Todd et al.

Serial No.: Not Yet Assigned

Filed: _____

For: COMPOSITE MEDIA FOR ION
PROCESSING AND A METHOD FOR
MAKING THE COMPOSITE MEDIA

Confirmation No.: Unknown

Examiner: Unknown

Group Art Unit: Unknown

Attorney Docket No.: B-294

NOTICE OF EXPRESS MAILING

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 or PTO/SB/08 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in

37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56(b) exists.

U.S. Patent Documents

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
US - 3,622,268	11/1971	Wada et al.
US - 4,548,790	10/1985	Horwitz et al.
US - 4,683,124	07/1987	Muscatello et al.
US - 4,826,604	05/1989	Faubel et al.
US - 4,835,107	05/1989	Horwitz et al.
US - 5,169,609	12/1992	Horwitz et al.
US - 5,518,707	05/1996	Bedard et al.
US - 5,637,506	06/1997	Goken et al.
US - 5,667,695	09/1997	Bedard et al.
US - 2002/0121470 A1	09/2002	Mann et al.
US - 6,514,566 B2	02/2003	Mann et al.

Other Documents

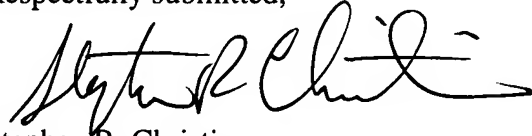
- MUSCATELLO et al., Chem. Sep., vol. 2, p 439-48, 1986. ✓
- MUSCATELLO et al., ACS Symp. Ser., 347, pp 182-9, 1987. ✓
- SEBASTA et al., J. Radioanal. Nucl. Chem. 140(1), pp. 15-21, 1990. ✓
- SCHULTE et al., Sep. Sci. Technol., 30(7-9), pp. 1833-47, 1995. ✓
- LUMETTA et al., Solvent Extr. Ion Exch., 14(1), pp. 35-60, 1996. ✓
- SCHULTE et al., Proc. Embedded Top Meet. DOE Spent Nucl. Fuel Fissile Mater. Manage., pp. 418-427, 1996. ✓
- SEBESTA et al., R. Soc. Chem., 182, pp. 346-354, 1996. ✓
- MILLER et al., Sep. Sci. Technol., 32(1-4), pp. 37-50, 1997. ✓
- SEBESTA et al., Acta Polytech., 38(3), pp. 119-120, 1998. ✓
- BREWER et al., Czech. J. Phys. 49, pp. 959-964, 1999. ✓
- JOHN et al., NATO Sci. Ser., Ser. 2, 53, pp. 155-168, 1999. ✓
- BRAUN, R. et al., "Ion Exchange Performance of Commercial Crystalline Silicotitanates for Cesium Removal," Waste Management '96, Tucson Arizona, pp. 1-20. ✓
- MILLER J.E. et al., "Development and Properties of Crystalline Silicotitanate (CST) Ion Exchangers for Radioactive Waste Applications," Sandia Report, Sandia National Laboratories, SAND97-0071, Apr. 1997, pp. 1-57. ✓
- SEBESTA, F., "Composite Sorbents of Inorganic Ion-Exchangers and Polyacrylonitrile Binding Matrix," Journal of Radioanalytical and Nuclear Chemistry, vol. 220, No. 1, (1997) pp. 77-88. ✓
- SEBESTA, F. et al., "Application of AMP-PAN/SF02 Absorber for ¹³⁷Cs Separation from INEEL Dissolved Calcine Solutions," Czech Technical University in Prague, Sep. 1997 pp. 1-14. ✓
- SEBESTA, F. et al., "Waste Treatment and Immobilization Technologies Involving Inorganic Sorbents," International Atomic Energy Agency, Jun. 1997, pp. 79-103. ✓
- Material Safety Data Sheet UOPtm IONSIVtm Ion Exchanger Type IE-911, Jul. 1996 pp. 1-4. ✓
- Material Safety Data Sheet UOPtm IONSIVtm IE-910 Ion Exchange Powder, Dec. 1994 pp. 1-4. ✓

Applicants offer to supply any explanation or discussion of the documents that the Examiner feels is necessary or desirable and which is requested.

Attorney Docket No. B-294

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. § 1.17(p) is required.

Respectfully submitted,



Stephen R. Christian
Registration No. 32,687
Attorney for Applicants
P.O. Box 1625
Idaho Falls, ID 83415-3899
Phone: (208) 526-9140
Fax: (208) 526-8339

Date: 8 DEC 2003

Enclosures: Form PTO-1449 or PTO/SB/08
Cited Documents

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	Not Yet Assigned
Filing Date	
First Named Inventor	Todd et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	B-294

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-3,622,268	11/1971	Wada et al.	
		US- 4,548,790	10/1985	Horwitz et al.	
		US- 4,683,124	07/1987	Muscattello et al.	
		US- 4,826,604	05/1989	Faubel et al.	
		US- 4,835,107	05/1989	Horwitz et al.	
		US- 5,169,609	12/1992	Horwitz et al.	
		US- 5,518,707	05/1996	Bedard et al.	
		US- 5,637,506	06/1997	Goken et al.	
		US- 5,667,695	09/1997	Bedard et al.	
		US- 2002/0121470 A1	09/2002	Mann et al.	
		US- 6,514,566 B2	02/2003	Mann et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

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Application Number	Not Yet Assigned
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First Named Inventor	Todd et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	B 204

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MUSCATELLO et al., Chem. Sep., vol. 2, p 439-48, 1986.	
		MUSCATELLO et al., ACS Symp. Ser., 347, pp 182-9, 1987.	
		SEBASTA et al., J. Radioanal. Nucl. Chem. 140(1), pp. 15-21, 1990.	
		SCHULTE et al., Sep. Sci. Technol., 30(7-9), pp. 1833-47, 1995.	
		LUMETTA et al., Solvent Extr. Ion Exch., 14(1), pp. 35-60, 1996.	
		SCHULTE et al., Proc. Embedded Top Meet. DOE Spent Nucl. Fuel Fissile Mater. Manage., pp. 418-427, 1996.	
		SEBESTA et al., R. Soc. Chem., 182, pp. 346-354, 1996.	
		MILLER et al., Sep. Sci. Technol., 32(1-4), pp. 37-50, 1997.	
		SEBESTA et al., Acta Polytech., 38(3), pp. 119-120, 1998.	
		BREWER et al., Czech. J. Phys. 49, pp. 959-964, 1999.	
		JOHN et al., NATO Sci. Ser., Ser. 2, 53, pp. 155-168, 1999.	

Examiner Signature		Date Considered	
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Sheet

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of

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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		BRAUN, R. et al., "Ion Exchange Performance of Commercial Crystalline Silicotitanates for Cesium Removal," Waste Management '96, Tucson Arizona, pp. 1-20.	
		MILLER J.E. et al., "Development and Properties of Crystalline Silicotitanate (CST) Ion Exchangers for Radioactive Waste Applications," Sandia Report, Sandia National Laboratories, SAND97-0071, Apr. 1997, pp. 1-57.	
		SEBESTA, F., "Composite Sorbents of Inorganic Ion-Exchangers and Polyacrylonitrile Binding Matrix," Journal of Radioanalytical and Nuclear Chemistry, vol. 220, No. 1, (1997) pp. 77-88.	
		SEBESTA, F. et al., "Application of AMP-PAN/SF02 Absorber for 137Cs Separation from INEEL Dissolved Calcine Solutions," Czech Technical University in Prague, Sep. 1997 pp. 1-14.	
		SEBESTA, F. et al., "Waste Treatment and Immobilization Technologies Involving Inorganic Sorbents," International Atomic Energy Agency, Jun. 1997, pp. 79-103.	
		Material Safety Data Sheet UOPtm IONSIVtm Ion Exchanger Type IE-911, Jul. 1996 pp. 1-4.	
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